

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-22-N-WG-UNV-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-N-WG-UNV-L835-CD2-U  
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

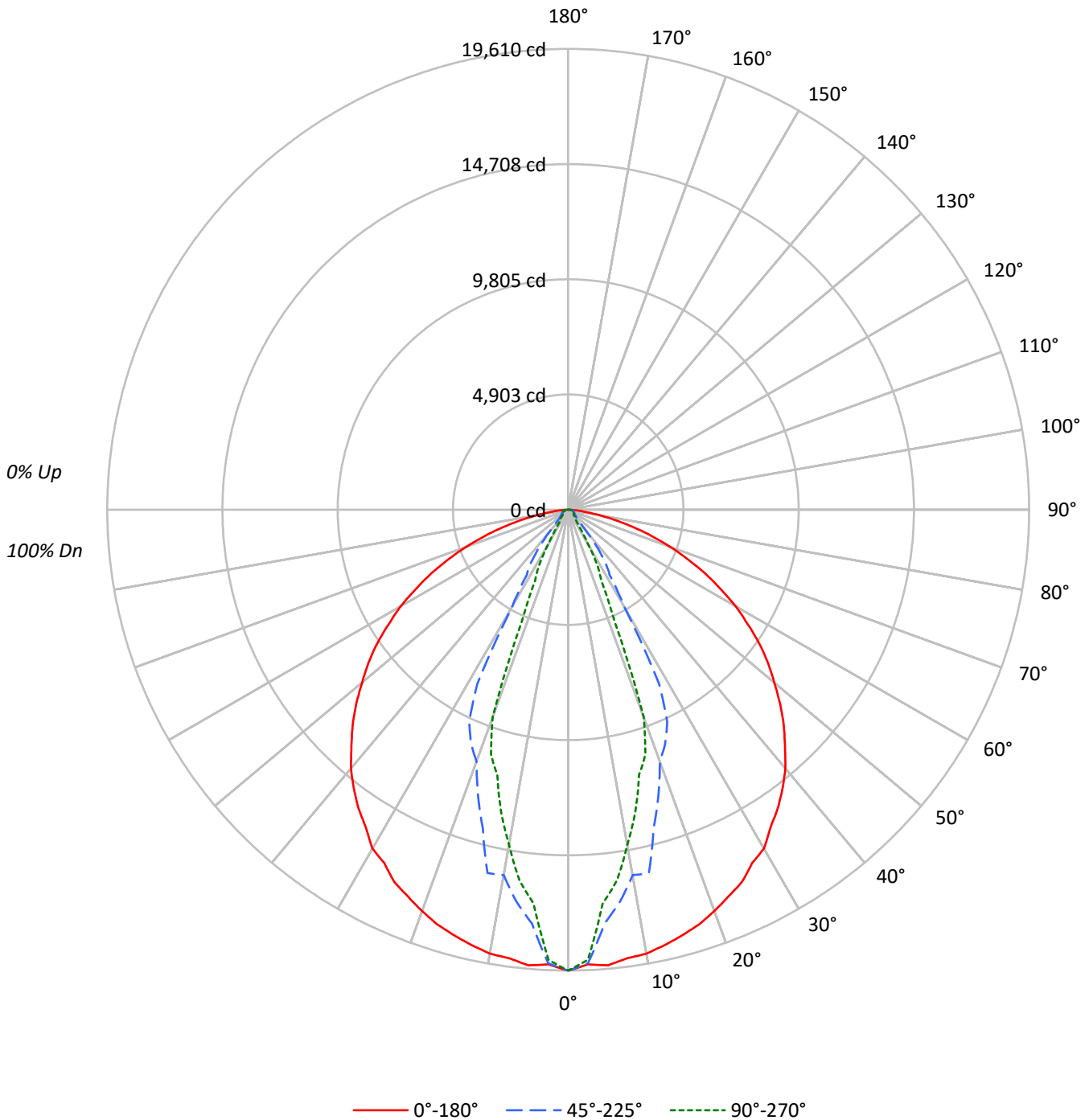
Lumens per Lamp: N/A  
Luminaire Lumens: 19469.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 167.7  
Input Voltage (V):  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	28783	28783	28783
5°	28644	25865	24567
10°	28521	23186	21200
15°	28397	20854	17228
20°	28258	17264	14113
25°	28157	15521	5134
30°	28022	7735	2676
35°	27600	4683	1019
40°	27257	2343	888
45°	26591	1016	657
50°	25747	861	599
55°	24931	720	628
60°	23670	749	613
65°	21750	813	626
70°	19114	850	649
75°	15448	941	714
80°	10629	1117	791
85°	5981	1341	990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1675.0	8.6
10°-20°	4060.8	20.9
20°-30°	4423.7	22.7
30°-40°	3403.0	17.5
40°-50°	2514.4	12.9
50°-60°	1582.0	8.1
60°-70°	1035.9	5.3
70°-80°	580.0	3.0
80°-90°	194.2	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10159.5	52.2
0°-40°	13562.5	69.7
0°-60°	17658.9	90.7
0°-90°	19469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19469.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19610	19610	19610	19610	19610	
5°	19462	19310	17686	16643	16833	###
15°	18750	16301	14040	12187	11669	5294
25°	17487	13067	9968	4439	3331	8039
35°	15538	9629	2771	883	612	9717
45°	12970	5129	532	448	351	9988
55°	9916	1314	316	332	284	8834
65°	6430	325	277	248	222	6342
75°	2851	245	219	196	177	3059
85°	406	155	158	151	132	517
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19609.8	19609.8	19609.8	19609.8	19609.8
2.5°	19368.2	19374.7	19326.3	19229.7	19168.5
5°	19461.6	19310.2	17686.5	16642.8	16832.8
7.5°	19249.0	18466.2	16832.8	16053.2	15901.8
10°	19178.1	17171.1	15792.3	15528.1	14497.2
12.5°	18975.2	16385.0	15840.6	14175.0	13186.0
15°	18749.7	16301.3	14039.7	12187.3	11668.6
17.5°	18504.8	15566.7	12757.5	11169.3	10921.2
20°	18173.0	15096.4	11398.0	10267.2	9394.2
22.5°	17815.4	14870.9	10782.7	6691.2	5186.8
25°	17486.8	13066.8	9967.6	4439.4	3331.1
27.5°	16945.6	12921.8	8372.9	3250.6	2748.0
30°	16652.4	11581.6	4790.5	2445.2	1678.5
32.5°	16017.8	10531.4	3279.6	1485.2	1001.9
35°	15537.7	9629.3	2770.6	882.7	612.1
37.5°	14974.0	9033.3	2071.5	605.7	531.6
40°	14374.8	8331.0	1311.2	541.2	505.8
42.5°	13646.7	7503.1	776.4	509.0	434.9
45°	12970.1	5128.8	531.6	447.8	351.2
47.5°	12222.7	3498.7	454.2	380.1	302.8
50°	11443.1	2287.3	415.6	338.3	296.4
52.5°	10711.8	1875.0	360.8	338.3	296.4
55°	9916.1	1314.4	315.7	331.8	283.5
57.5°	9043.0	818.3	296.4	322.2	273.8
60°	8237.6	483.2	293.2	312.5	248.1
62.5°	7296.9	367.3	286.7	277.1	235.2
65°	6430.3	325.4	277.1	248.1	222.3
67.5°	5499.3	293.2	257.7	238.4	215.8
70°	4606.9	264.2	244.8	222.3	196.5
72.5°	3711.3	254.5	232.0	209.4	186.9
75°	2851.1	244.8	219.1	196.5	177.2
77.5°	2074.7	228.7	206.2	190.1	167.5
80°	1346.6	209.4	196.5	177.2	151.4
82.5°	750.6	190.1	180.4	164.3	145.0
85°	405.9	154.6	157.9	151.4	132.1
87.5°	74.1	109.5	135.3	132.1	116.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)